

CLAIMS

1. A method for removing organic nitrogen from an aqueous liquid, said method includes the step of adding a nitrosonium ion generator into said aqueous liquid to remove nitrogen from organic based nitrogen contaminant such as amines, amides, ureas and amino acids at a controlled temperature.
2. A method as claimed in claim 1, wherein the nitrosonium ion is a nitrous acid or a nitrite in acidic media.
3. A method as claimed in claim 1, wherein the temperature is between 0°C to 100°C, preferably between 20°C to 40°C.
4. A method for removing organic and inorganic contaminants from an aqueous liquid, said method includes the step of adding a peroxide in the presence of suitable catalyst(s) at controlled pH to oxidise and remove other organic and inorganic contaminants wherein the catalyst(s) is used as particulate(s) in a fixed bed reactor or moving bed reactor caused by the motion of fluid or gases, or by mechanical means through which the aqueous liquid to be treated comes in continuous contact in the presence of the peroxide.
5. A method as claimed in claim 4, wherein the addition of hydrogen peroxide can be before or together with the catalyst.

6. A method as claimed in claim 4, wherein the peroxide is hydrogen peroxide, as the preferably peroxide oxidant.
7. A method as claimed in claim 4, wherein the catalyst is activated carbon.
8. A method as claimed in claim 4, wherein the pH range is selected from 2 to 12.